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4 December 1961

HENORAPOUM Kill I Chief, Development Branch, DFD-ID/F

SIDJET!

Trip Report (CXCART)

l. Visite were made to Lockbeed (Burbank). Edwards AFD (Main Dase only), and M-H (Mirmempolie) by during the period 27-30 Hovember 1961 to review details of the CKCART program. The itinerary followed was:

Monday, 27 Movember Tuesday, 28 Movember Wednesday, 29 Movember Thereday, 30 Movember LAC, Burbenk LAC end Edwarde AFB Edwards AFB and LAC

ii-II, Hammepolin

Subjects of discussion and individual with whom discussed were so follows:

Somic faligue experience with
the I-15
Use of IES for rell and pitch
presentation to pilet
Telemetering security
SSS radio externs installation
Preliminary IES flight test
program
Planning and reporting flight
tests
Secordar for EFIC information
Semio beam program
SAS, Autopilet, ADC

NEXT REVIEW DATE:
AUTH: HR 70.2
DATE: CHANGED TO: 10 0 0

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Such of these subjects is covered in the following paragraphs.

2. Barrier. A briefing and inspection tour were given to two Lockheed engineers (introduced as "contract engineering consultants", no tis-is with Lankheed mentioned) and

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by the barrier test engineering supervisor at Edwards AFF.

This base has been the site for all Air Force barrier testing in recent years and the experience there covers all known equipment in use or placed by the Air Force. The purpose of this trip was to assure that LAC be quantitatively source of the latest information on barriers.

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3. Somic fatigue experience with the K-15. This subject was covered in an K-15 symposium at Edwards AFS during the week of 20 Newseber 1961, at which LAC representatives were present. had received this information and could foresee no problem with the CHCART vehicle at this time. 4. Use of INS for roll and mitch presentation to pilot. By	
adding wary limited wiring and a switch, roll and pitch presenta- tion from the INI can be given on the pilot's attitude indicator. This would surve to provide a check on proper operation of the INI prior to turning on the autopilot and also an alternate source in event of failure of the ship's system remote gyro for this indication. This modification is considered highly desirable although not essential.	
6. SSS ratio automa installation. There have from the original LAC proposal. He problems were for who said this subject would be further discus-	General by
7. Preliminary INS flight test program. LAC pracomplish this test.	roposes to
d. Clarating and reporting flight tests. By ide subject were discussed informally in a non-directive. These ideas are not in accord with Erasul were presented only to show my thoughts. With Erpresent system there can be no knowledge external to flight test planning.	namer with C. L. Johnson's L. Johnson's
meeting had been held between Esstems-Ecdak, M-H (Plowith the resultant recommendation that the camera and come up with a joint solution for this item. This dibe given after processing by LAC. This is considered item.	wide), and LAC, INS contractors rection was to
10. Senis Deca program. A quick look was taken sathered in this program. At 35,000 feet and Mal.53 shock overpressure was about 2.4 paf. At 60,000 feet 2-58 overpressure was about 1.43 paf. An overpressure tude is well within the satible range. A speed recor	a B-58 generated and B-2.0, the e of this mani-

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coast to coast flight, supersonically, in the 3-53 has been proposed to provide additional information.

11. SAS. Autopilot. ANC. The visit to Mill was primarily for orientation and project review. The technical problem of remaining concern area (1) whether the aeroelasticity predictions for the vehicle will be borne out, and (2) whether the servementants to which the SAS imputs are given will perform properly without expossive degredation of the SAS. These are flight test items. The lack of contractual coverage for fully testing the equipment was also pointed out by fail.

12. Becammistions. In view of the probable interest to this organization in the results of the sonic boom program, it is recommended that NASA contacts be queried as to the preliminary results of this program. It is further recommended that support be given, if necessary, to assure conduct of coast to coast record flight so that the high altitude-high Mach number effects may be more plainly defined.

SIGNED

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